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(54) Title: NOVEL FORMULATIONS COMPRISING LIPID-REGULATING AGENTS

(57) Abstract: The present invention is directed to a solid formulation comprising the lipid-regulating agent dispersed in a hydrophilic, amorphous polymer in which said lipid-regulating agent is present as a meta-stable, amorphous phase.

Novel Formulations Comprising Lipid-Regulating Agents

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Field of the Invention

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The present invention relates to novel formulations comprising lipid-regulating agents.

Background of the Invention

2-[4-(4-chlorobenzoyl)phenoxy]-2-methyl-propanoic acid, 1-methylethylester, also known as fenofibrate, is representative of a broad class of compounds having pharmaceutical utility as lipid regulating agents. More specifically, this compound is part of a lipid-regulating agent class of compounds commonly known as fibrates, and is disclosed in U.S. Patent No. 4,058,552.

Fenofibrate has been prepared in several different formulations, c.f., U.S. Patent No. 4,800,079 and U.S. Patent No. 4,895,726. U.S. Patent No. 4,895,726 discloses a co-micronized formulation of fenofibrate and a solid surfactant.

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U.S. Patent No. 4,961,890 discloses a process for preparing a controlled release formulation containing fenofibrate in an intermediate layer in the form of crystalline microparticles included within pores of an inert matrix. The formulation is prepared by a process involving the sequential steps of dampening said inert core with a solution based on said binder, then projecting said fenofibrate microparticles in a single layer onto said dampened core, and thereafter drying, before said solution based on said binder dissolves said fenofibrate microparticles, and repeating said three steps in sequence until said intermediate layer is formed.

PCT/US00/14106 WO 00/72825

European Patent Application No. EP0793958A2 discloses a process for producing a fenofibrate solid dosage form utilizing fenofibrate, a surface active agent and polyvinyl pyrrolidone in which the fenofibrate particles are mixed with a polyvinyl pyrrolidone solution. The thus obtained mixture is granulated with an aqueous solution of one or more surface active agents, and the granules thus produced are dried.

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PCT Publication No. WO 82/01649 discloses a fenofibrate formulation having granules that are comprised of a neutral core that is a mixture of saccharose and starch. The neutral core is covered with a first layer of fenofibrate, admixed with an excipient and with a second microporous outer layer of an edible polymer.

U.S. Patent No. 5,645,856 describes the use of a carrier for hydrophobic drugs, including fenofibrate, and pharmaceutical compositions based thereon. The carrier comprises a digestible oil and a pharmaceutically-acceptable surfactant component for dispersing the oil in vivo upon administration of the carrier, which comprises a hydrophilic surfactant, said surfactant component being such as not to substantially inhibit the in vivo lipolysis of the digestible oil.

Sheu, M. T., et al, Int. J. Pharm. 103 (1994) 137-146, reported that a dispersion of fenofibrate in PVP still maintains the same crystalline form of the drug itself.

Palmieri, G. F., et al, Pharma Sciences 6 (1996) 188-194, reported that a dispersion of crystalline fenofibrate could be prepared in PEG 4000. The authors concluded solid solutions in PEG are formed when the amount of fenofibrate is less than 15% and the dissolution rate is increased. particularly for the 90/10 carrier/drug ratio.

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Gemfibrozil is another member of the fibrate class of lipid-regulating agents. U.S. Patent No. 4,927,639 discloses a disintegratable formulation of gemfibrozil providing both immediate and sustained release, comprising a tablet compressed from a mixture of a first and second granulation, and a disintegration excipient operable to effect partial or complete disintegration in the stomach. The first granulation comprises finely divided particles of pure gemfibrozil granulated with at least one cellulose derivative, and the second granulation comprises finely divided particles of pure gemfibrozil granulated with a pharmaceutically-acceptable water soluble or insoluble polymer which are then uniformly coated with a pharmaceutically-acceptable (meth)acrylate copolymer prior to admixture with the first granulation. The first and second granulations are present in the final composition in a ratio of from about 10:1 to about 1:10.

U.S. Patent 4,925,676 discloses a disintegratable gemfibrozil tablet providing both immediate and enteric release, which is compressed from a mixture of a first granulation of gemfibrozil with at least one acid-disintegratable binder, and a second granulation formed from the first granulation, but regranulated or coated with an alkali-disintegratable formulation of at least one substantially alkali-soluble and substantially acid-insoluble polymer.

Another class of lipid-regulating agents are commonly known as statins, of which pravastatin and atorvastatin are members. U.S. Patents 5,030,447 and 5,180,589 describe stable pharmaceutical compositions, which when dispersed in water have a pH of at least 9, and include a medicament which is sensitive to a low pH environment, such as prevastatin, one or more fillers such as lactose and/or microcrystalline cellulose, one or more binders, such as

micrecrystalline cellulose (dry binder) or polyvinylpyrrolidone (wet binder), one or more disintegrating agents such as croscarmellose sodium, one or more lubricants such as magnesium stearate and one or more basifying agents such as magnesium oxide.

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It is an object of the present invention to provide formulations of lipid-regulating agents having enhanced bioavailability when compared to commercially available formulations

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Summary of the Invention

15 The present invention is directed to a solid formulation comprising the lipid-regulating agent dispersed in a hydrophilic, amorphous polymer in which said lipid-regulating agent is present as a metastable, amorphous phase. The size reduction obtained through the preparation of a dispersion is usually difficult to obtain. However, by using any technique that results in the dispersion of the lipid-regulating agent in an amorphous polymer, such as, for example, solvent evaporation or fusion, results in an increase in the dissolution rate and oral bioavailability of the said lipid-regulating agent.

The formulation may be administered directly, diluted into an appropriate vehicle for administration, encapsulated into hard gelatin shells or capsules, or compressed into tablets, for administration, or administered by other means obvious to those skilled in the art.

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Brief Description of the Drawings

Figure 1 is a graph showing the plasma concentration in fed dogs of the formulation of Example 1 and a reference compound.

Detailed Description of the Invention

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The bulk lipid-regulating agent may be prepared by any available method, as for example the compound fenofibrate may be prepared by the procedure disclosed in U.S. Patent No. 4,058,552, or the procedure disclosed in U.S. Patent No. 4,739,101, both herein incorporated by reference.

The composition comprising the lipid-regulating agent is prepared by dissolving or dispersing the lipid-regulating agent and hydrophilic, amorphous polymer in a sufficient amount of solvent. The solvent is evaporated to yield a solid mass which is ground, sized and optionally formulated into an appropriate delivery system. Other techniques, known in the art, such as for example fusion or fusion-evaporation, may also be used.

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The delivery system of the present invention results in increased solubility and bioavailability, and improved dissolution rate of the lipid-regulating agent.

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If the solvent evaporation technique is used, suitable solvents include, for example, lower alkyl alcohols such as methanol, ethanol, or any other pharmaceutically-acceptable organic solvent in which the lipid-regulating agent and the polymers have appreciable solubility.

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Suitable hydrophilic, amorphous polymers include, for example, polyvinylpyrrolidone (PVP),

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hydroxypropylmethylcellulose (HPMC), or other pharmaceutically-acceptable hydrophilic, amorphous polymers such as for example, Eudraqits'.

Other pharmaceutically-acceptable excipients may be added to the formulation prior to forming the desired final product. Suitable excipients include, for example, lactose, starch, magnesium stearate, or other pharmaceutically-acceptable fillers, diluents, lubricants, disintegrants, etc., that might be needed to prepare a capsule or tablet.

The resulting composition comprising the lipid-regulating agent may be dosed directly for oral administration, diluted into an appropriate vehicle for oral administration, filled into capsules, or made into tablets for oral administration, or delivered by some other means obvious to those skilled in the art. The said composition can be used to improve the oral bioavailability and solubility of said lipid-regulating agent.

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The invention will be understood more clearly from the following non-limiting representative examples:

Example 1

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A mixture (3 g) of fenofibrate and PVP (PF 17) in a ratio of 15:85 was dissolved in 4.5 mL of ethanol. The ethanol was evaporated under vacuum at 85°C. The resulting dry solid was then ground and sized through a 60-100 mesh screen. 446.7 mg of the granular formulation (containing 67 mg fenofibrate) was filled into individual capsules.

Example 2

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A mixture (3 g) of statin and PVP (PF 17) in a ratio of 15:85 is dissolved in sufficient ethanol. The ethanol is

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evaporated under vacuum at 85°C. The resulting dry solid is then ground and sized through a 60-100 mesh screen. The solid is then filled in capsules to obtain the desired unit dose.

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Example 3

Capsules prepared by the process described in Example
1, and from a commercial fenofibrate composition, Lipanthyl
67M (Groupe Fournier) (Reference), were administered to a
group of dogs at a dose of 67 mg fenofibrate/dog. The
plasma concentrations of fenofibric acid were determined by
HPLC. Concentrations were normalized to a 6.7 mg/kg dose in
each dog. Figure 1 presents the resulting data in graph
form. The results provided as mean ± SD, n=6, were as
follows:

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Claims

- A composition comprising a lipid regulating agent dissolved or dispersed in a hydrophilic, amorphous 5 polymer in which said lipid-regulating agent is present as a meta-stable, amorphous phase.
 - 2. A composition of claim 1 wherein said lipid-regulating agent is a fibrate.
- 3. A composition of claim 2 wherein said fibrate is fenofibrate.
- 4. A composition of claim 1 wherein said lipid-regulating 15 agent is a statin.
 - 5. A composition of claim 4 wherein said statin is prevastatin.
- 20 6. A composition of claim 4 wherein said statin is atorvastatin.
- A composition of claim 1 further comprising dissolving 7. the lipid-regulating agent into a hydrophilic, 25 amorphous polymer in a sufficient amount of solvent, then removing said solvent to yield a solid composition comprising said lipid-regulating agent in a stable, amorphous phase.
- 30 A composition of claim 7 wherein at least one or more 8. of said solvents is selected from lower alkyl alcohol such as for example, methanol, ethanol, or any other pharmaceutically-acceptable organic solvent in which the lipid-regulating agent and the polymer have 35 appreciable solubility.

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9. A composition of claim 8 wherein one or more of said solvents is ethanol.

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10. A composition of claim 1 wherein at least one or more of said hydrophilic polymers is selected from polyvinylpyrrolidone (PVP), hydroxypropylmethylcellulose (HPMC), or other pharmaceutically-acceptable hydrophilic, amorphous polymers such as for example, Eudragits[®].

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11. A composition of claim 10 wherein at least one or more of said hydrophilic polymers is polyvinylpyrrolidone.

12. A delivery system comprising a composition of claim 1.

13. A delivery system of claim 12 wherein said delivery system is a capsule or tablet.

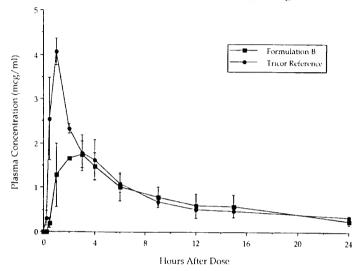
- 14. A method of treating hyperlipidemia comprising the 20 administration of a composition of claim 1 to a patient.
 - 15. A method of treating hyperlipidemia comprising the administration of a composition of claim 3 to a patient.
 - 16. A method of treating hyperlipidemia comprising the administration of a composition of claim 13 to a patient.

FIG. 1

Insert dog data

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Mean (±SEM, n=3) Plasma Concentrations of Fenofibric Acid after a 67 mg Oral Dose of Fenofibrate in Non-fasted Dogs



INTERNATIONAL SEARCH REPORT

Interna il Application No

			PC	r/US 00/14	106
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER A61K9/14 A61K9/48	A61K47/32	A61K47/38	A61P3/0	4
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	ata base consulted during the international search ternal, WPI Data, PAJ, BIOS			h terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appr	opriate, of the relevant p	oassages		Relevant to claim No.
X	WO 96 36318 A (LEK TOVAR ;REBIC LJUBOMIRA BARBARA 21 November 1996 (1996-1 page 4, paragraph 2 page 5, last paragraph - 2 page 10, paragraph 3 claims 2,7	N (SI); KERC 11-21)	JANE)		1-3,7-16
х	EP 0 462 066 A (WARNER L 18 December 1991 (1991-1 page 2, line 28 -page 3, example 1	12-18)			1,2, 10-16
X Fur	ther documents are listed in the continuation of box	с. 🗓	Patent family memb	ers are listed in ann	nex.
"A" docum consi "E" earlier filing "L" docum which citatic "O" docum other	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the internations date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	t i	ter document published or priority date and not in slided to understand the p nevention occument of particular rel annot be considered no never an invertive step coument of particular rel cannot be considered to ments, such combination in the art. occument is combination occument is combination occument member of the cocument member of the	a conflict with the a vinciple or theory a evance; the claime- vel or cannot be oc when the documer evance; the claime- involve an inventiv- tith one or more out a being obvious to a	pplication but underlying the di invention naisidered to nt is taken alone di invention e step when the estep when the person skilled
Date of the	actual completion of the international search	(Date of mailing of the int	emational search re	eport
	l September 2000		12/09/2000		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Marttin, E		

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INTERNATIONAL SEARCH REPORT

Interna al Application No PCT/US 00/14106

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1-3.7-13 χ WO 98 31361 A (FOURNIER LAB SA) 23 July 1998 (1998-07-23) page 5, line 22 - last line page 6, line 21 -page 7, line 7 page 10, line 26 -page 11, line 3; claims 1-3,13,14; example 1 MORRIS K A ET AL: "Characterization of 1,7,12, humidity-dependent changes in crystal properties of a new HMG-CoA reductase inhibitor in support of its dosage form development." INTERNATIONAL JOURNAL OF PHARMACEUTICS (AMSTERDAM), vol. 108, no. 3, 1994, pages 195-206, XP000929694 ISSN: 0378-5173 page 196, column 1, paragraph 3 page 197, column 2, last paragraph -page 198, column 1, paragraph 1 page 201, column 1, last paragraph -column 2, line 1 page 204, column 2, paragraph 2 χ WO 98 15264 A (LOEFROTH JAN ERIK :ASTRA AB 1.4.7 - 16(SE); OEDMAN JONAS (SE)) 16 April 1998 (1998-04-16) page 7, line 9 -page 9, line 8 page 9, line 22 - line 26; claims 1-6,9,10,12; example 5

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-16 relate to a compound defined by reference to a desirable characteristic or property, namely a "lipid-regulating agent". The term "lipid-regulating agent" as used in the present independent claims 1, 12, 14-15 and in dependent claims 2-11, and 13 defines the active agent by its pharmacological effect. However, a compound canot be sufficiently characterised by its pharmacological effect as it is done by an expression like "lipid-regulating agent", because it is impossible to know which substances are encompassed in this expression. Moreover, a compound cannot be sufficiently characterised by the term "regulating", because this term has no well-recognised meaning and is therefore unclear.

The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for the concept of "lipid-regulating agent" and those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned in claims 2-6.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT Injormation on patent family members

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